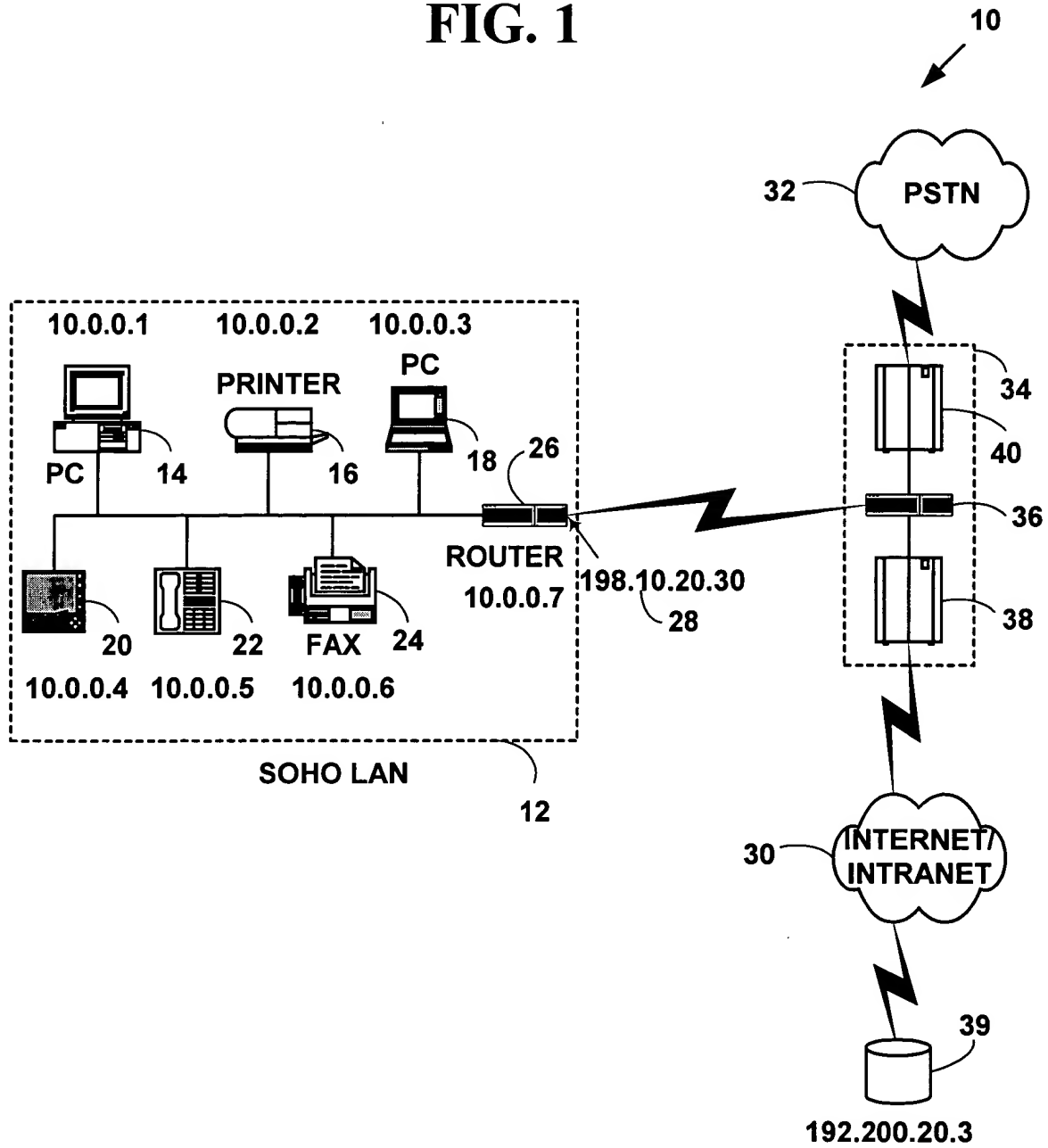


FIG. 1



664,230-35743E60

FIG. 2

PROTOCOL STACK

42

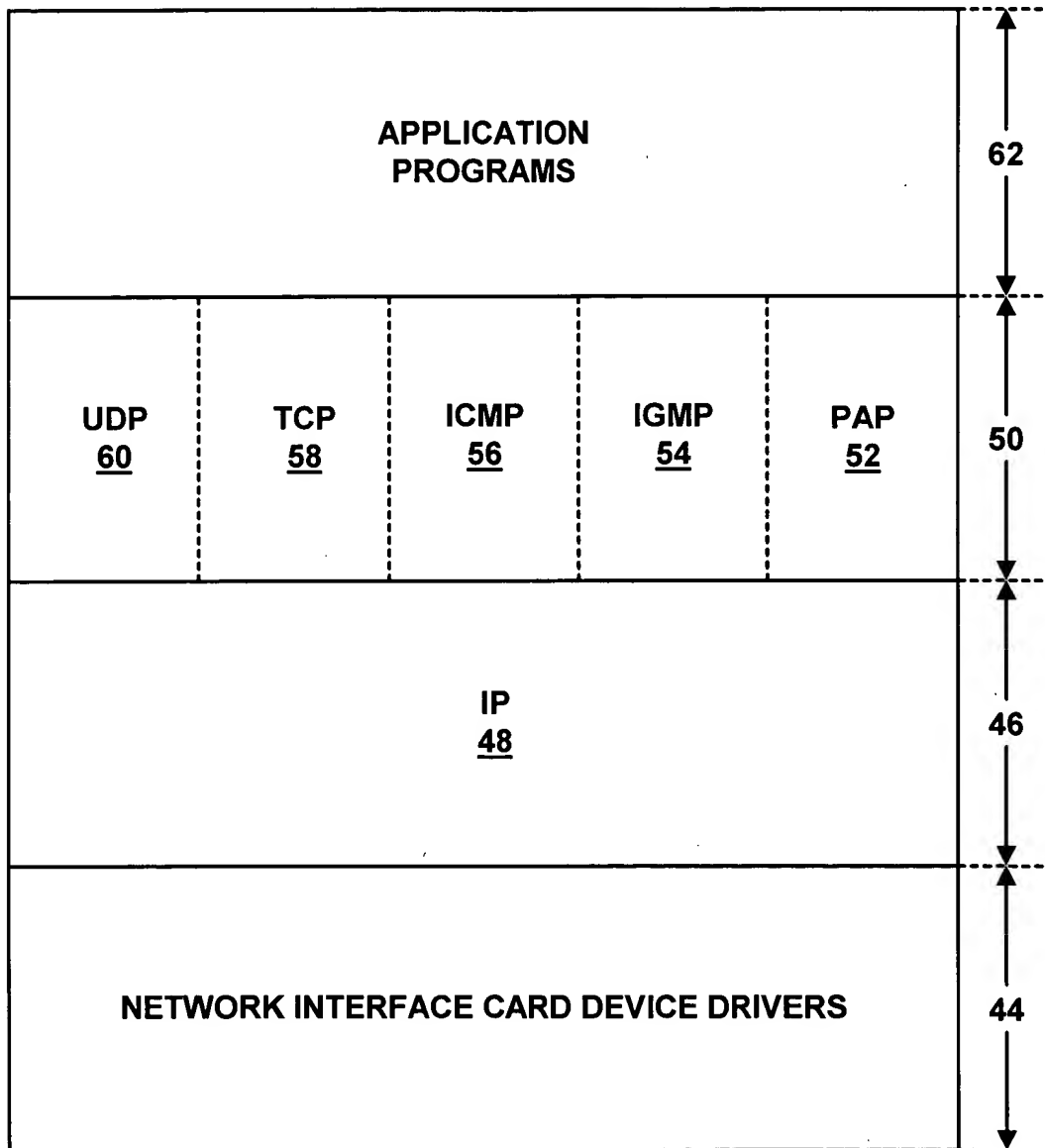


FIG. 3

PORT ALLOCATION PROTOCOL (PAP)

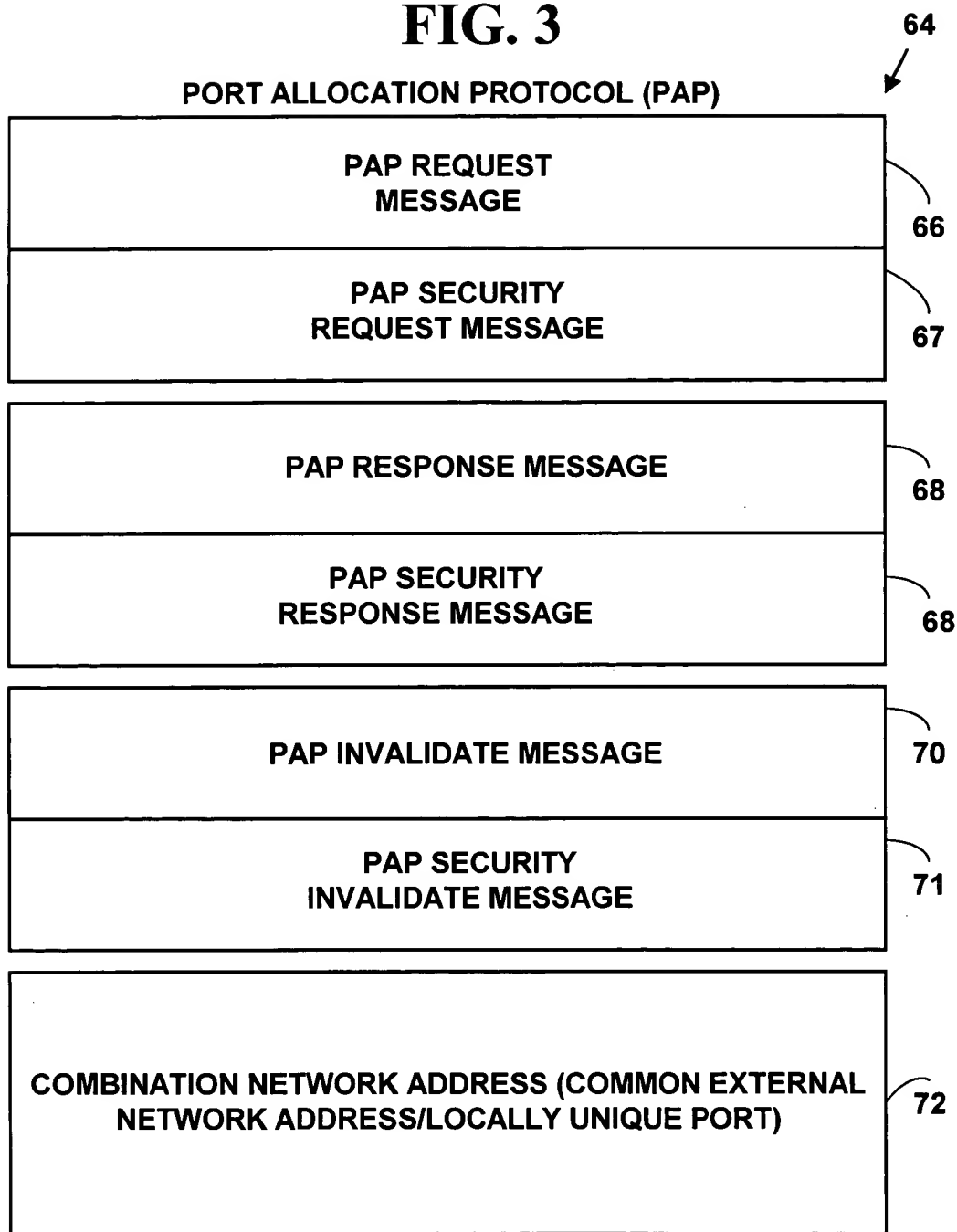


FIG. 4

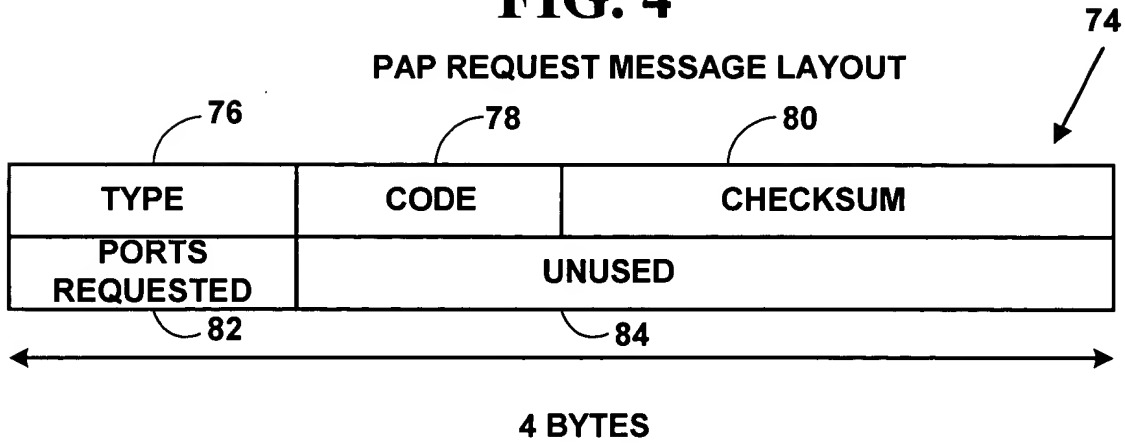


FIG. 5

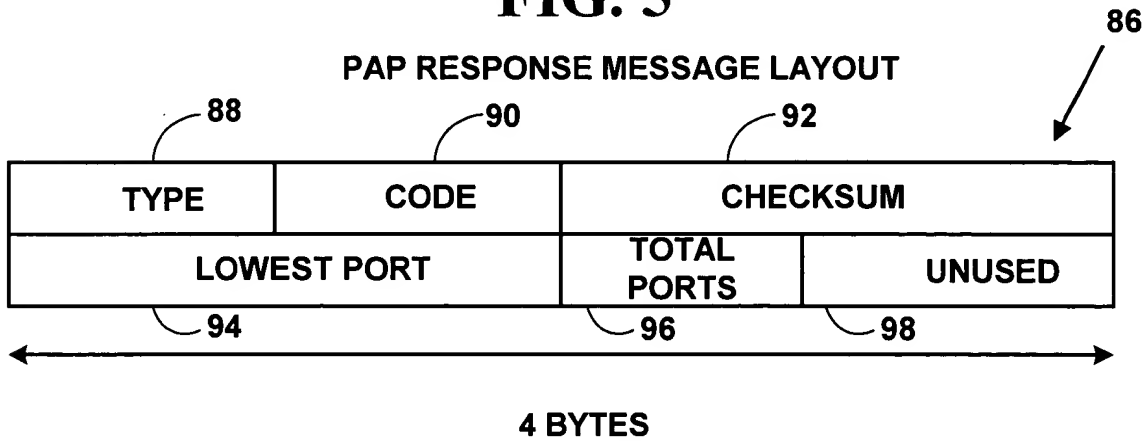


FIG. 6

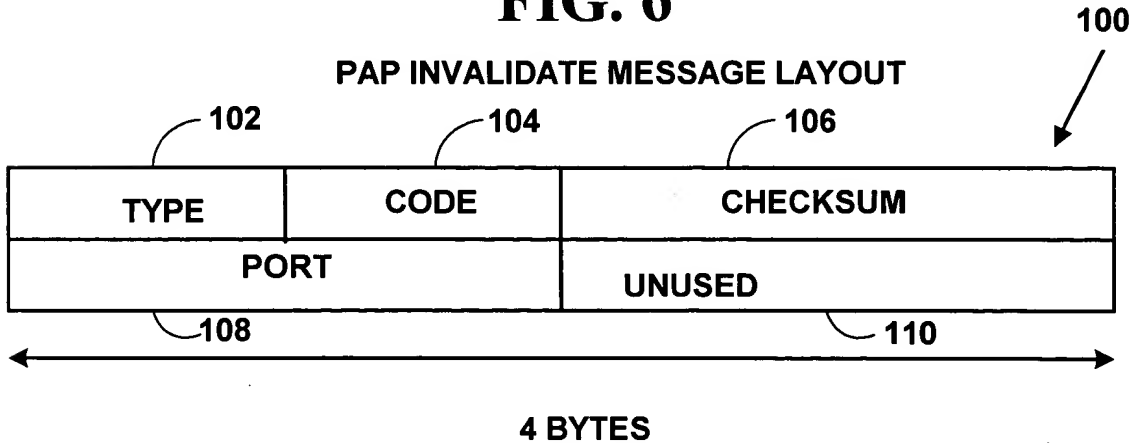


FIG. 7

114 COMBINATION NETWORK ADDRESS		116	112
EXTERNAL NETWORK ADDRESS (E.G., EXTERNAL IP ADDRESS)	LOCALLY UNIQUE PORT		
198.10.20.30	1032		

FIG. 8

120			122	124	118
INTERNAL NETWORK ADDRESS	LOWEST PORT	NUMBER OF PORTS			
10.0.0.1	1026	32			126
10.0.0.3	1058	16			128

**PORT-TO-INTERNAL-NETWORK
ADDRESS TABLE**

FIG. 4A

PAP SECURITY REQUEST MESSAGE LAYOUT

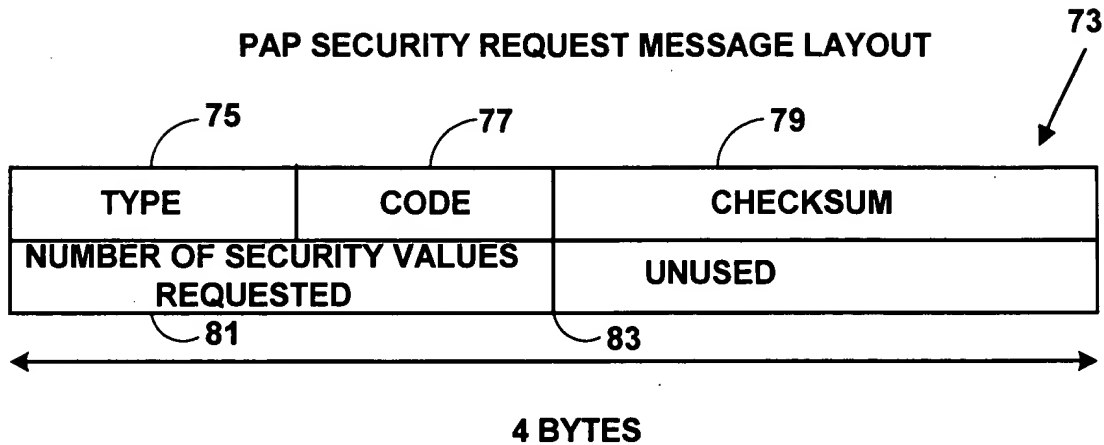


FIG. 5A

PAP SECURITY RESPONSE MESSAGE LAYOUT

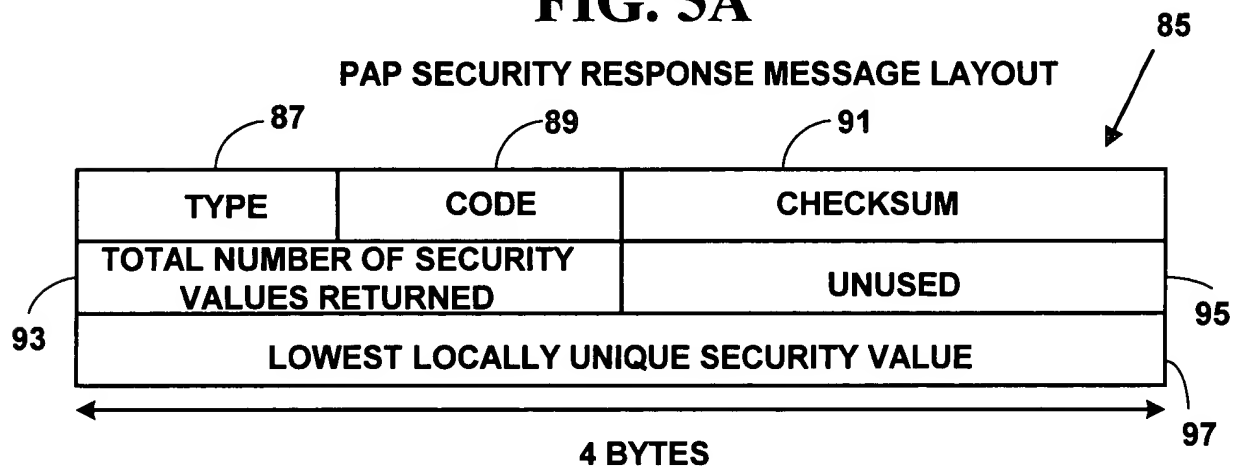


FIG. 6A

PAP SECURITY INVALIDATE MESSAGE LAYOUT

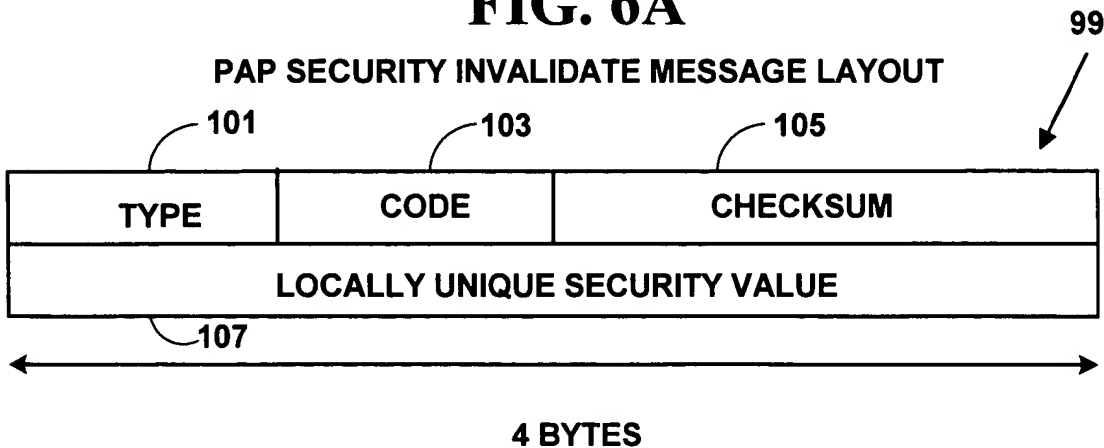


FIG. 9

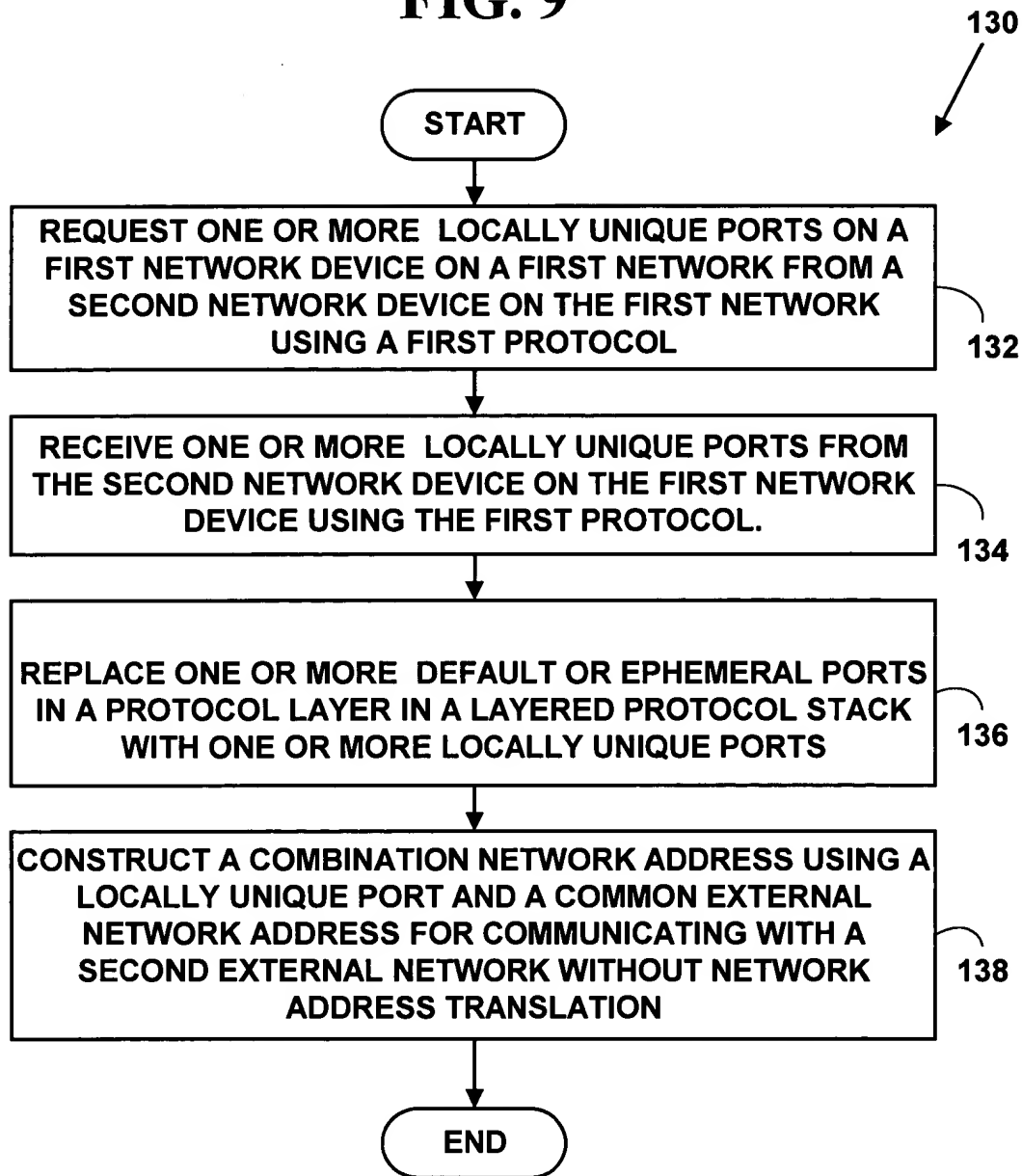


FIG. 10

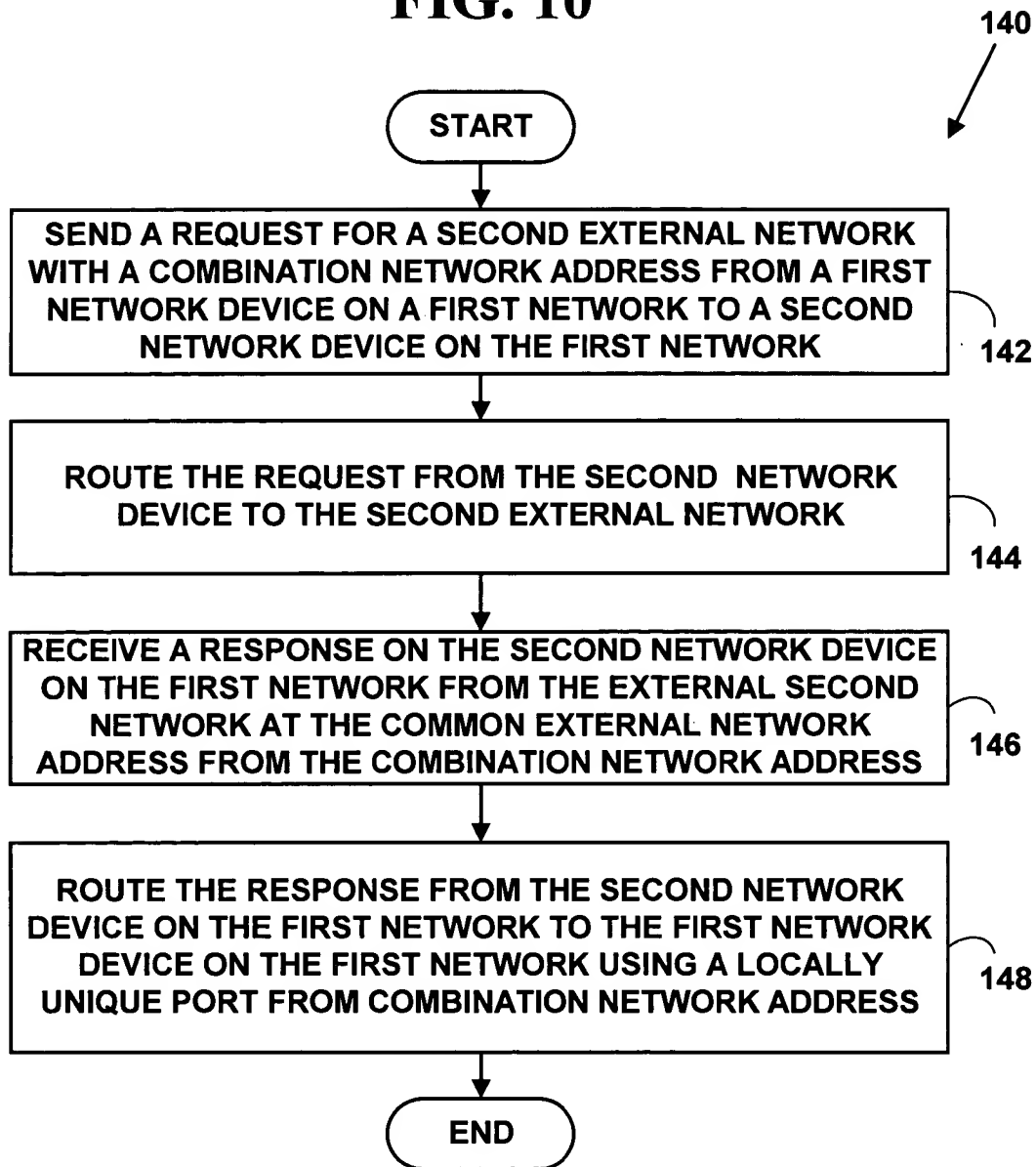


FIG. 11
SOURCE PORT TRANSLATION TABLE
(SPTT)

150

152 DEFAULT PORT		154 TRANSLATED PORT	
156 PROTOCOL		158 TIMESTAMP	

FIG. 12
IP ADDRESS TRANSLATION TABLE
(IPATT)

160

162 DESTINATION PORT		164 INTERNAL DESTINATION IP ADDRESS	
166 PROTOCOL		168 TIMESTAMP	

FIG. 13

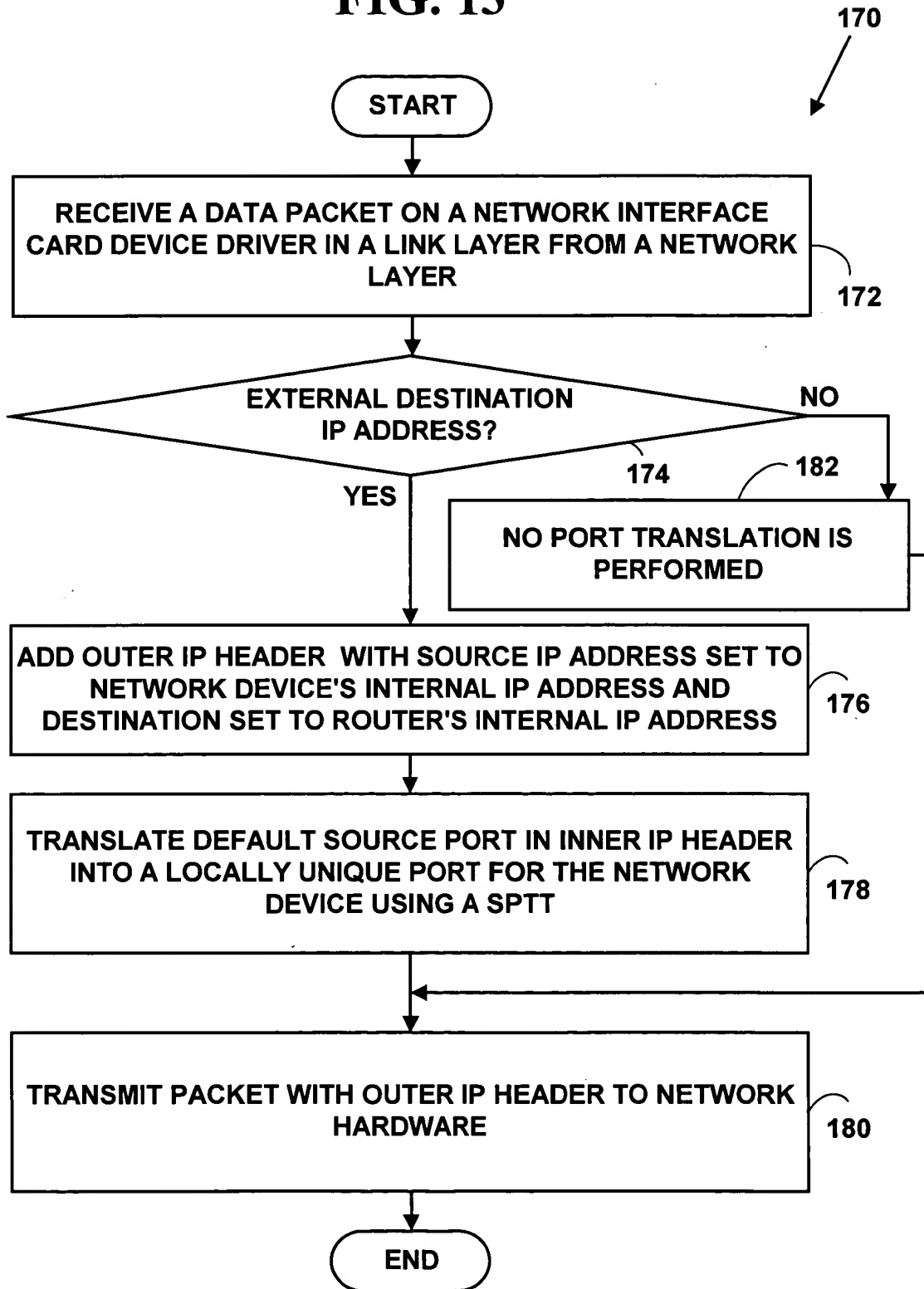
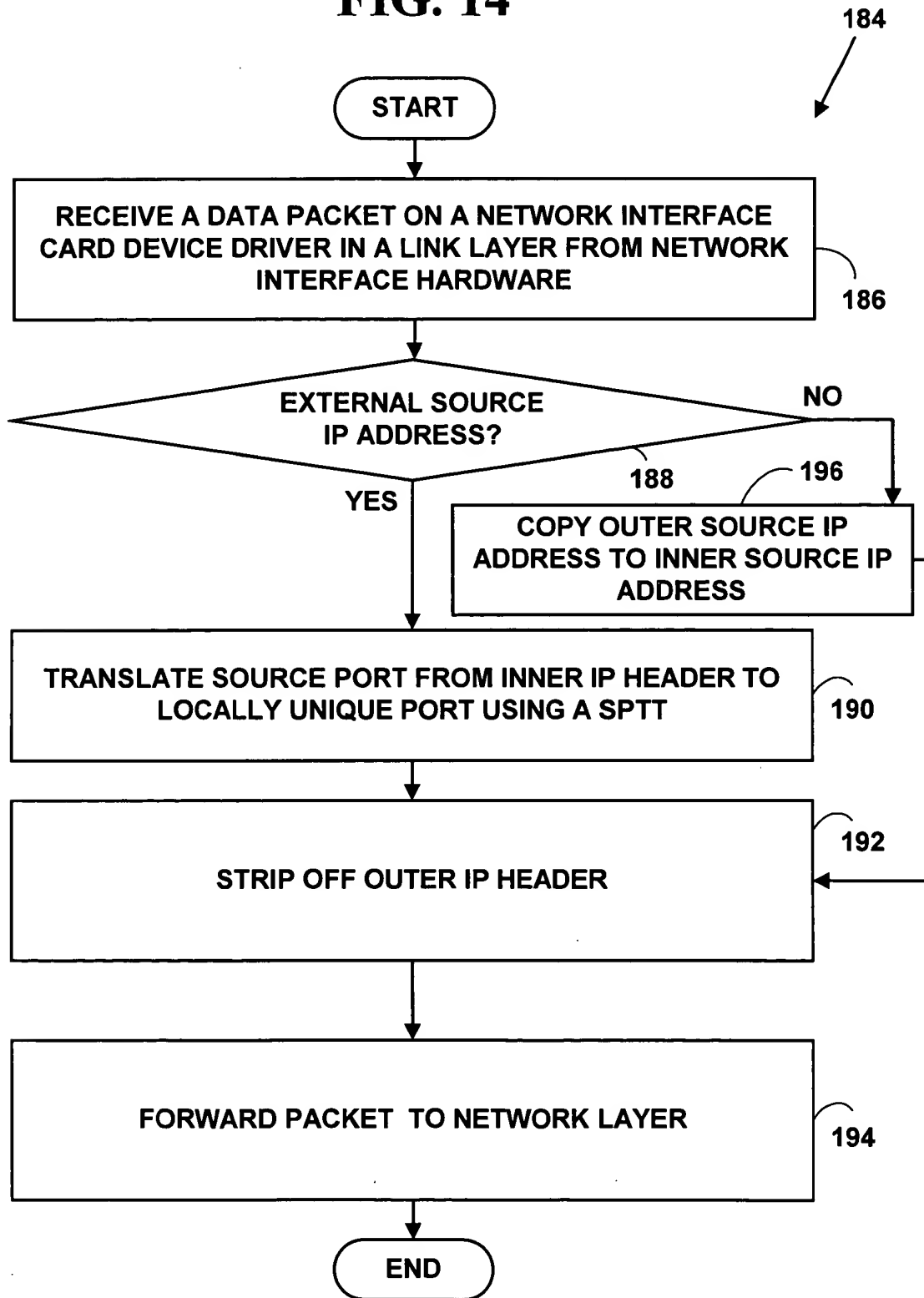


FIG. 14



200



VER <u>202</u>	IHL <u>204</u>	TOS <u>206</u>	TOTAL LENGTH <u>208</u>
IDENTIFICATION <u>210</u>			FRAGMENT OFFSET <u>212</u>
TIME-TO-LIVE <u>214</u>	PROTOCOL <u>216</u>		HEADER CHECKSUM <u>218</u>
SOURCE ADDRESS <u>220</u>			
DESTINATION ADDRESS <u>222</u>			
OPTIONS <u>224</u>			

FIG. 16

AH HEADER FORMAT

226



NEXT HEADER <u>228</u>	PAYLOAD LENGTH <u>230</u>	RESERVED <u>232</u>
SECURITY PARAMETER INDEX ("SPI") <u>234</u>		
SEQUENCE NUMBER FIELD <u>236</u>		
AUTHENTICATION DATA <u>238</u>		

664230-8974360

FIG. 17

ESP HEADER FORMAT

240

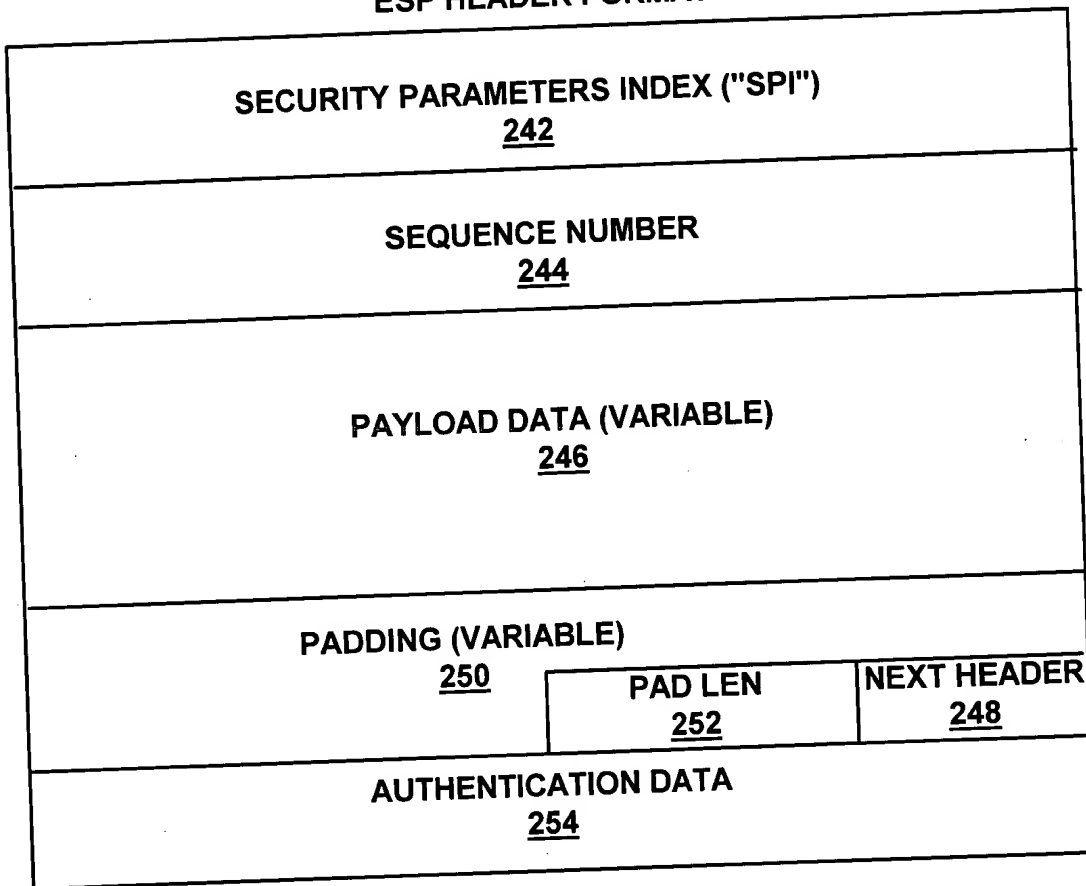


FIG. 18

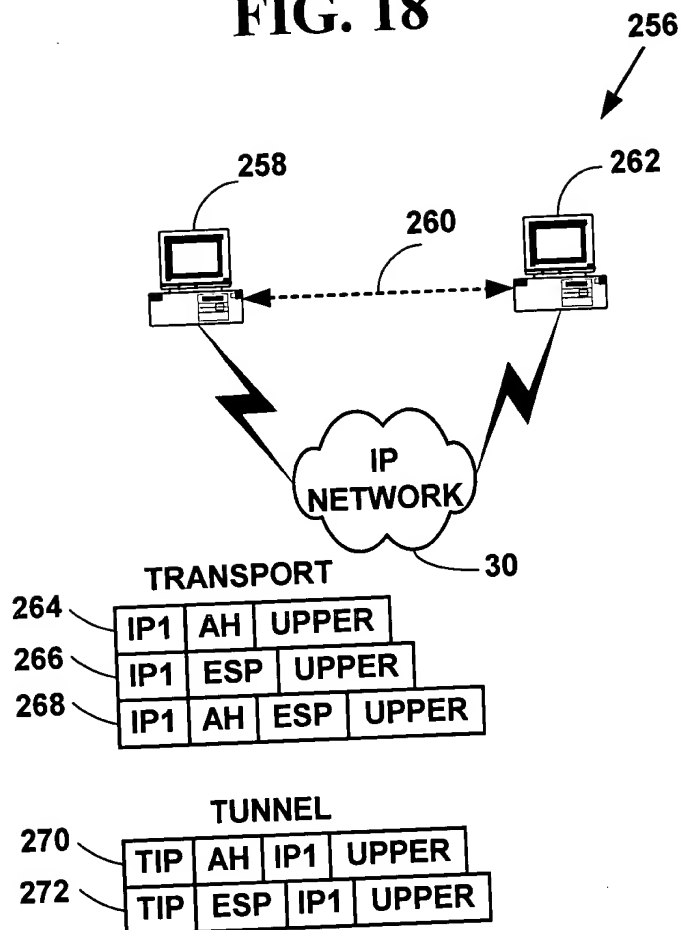


FIG. 19

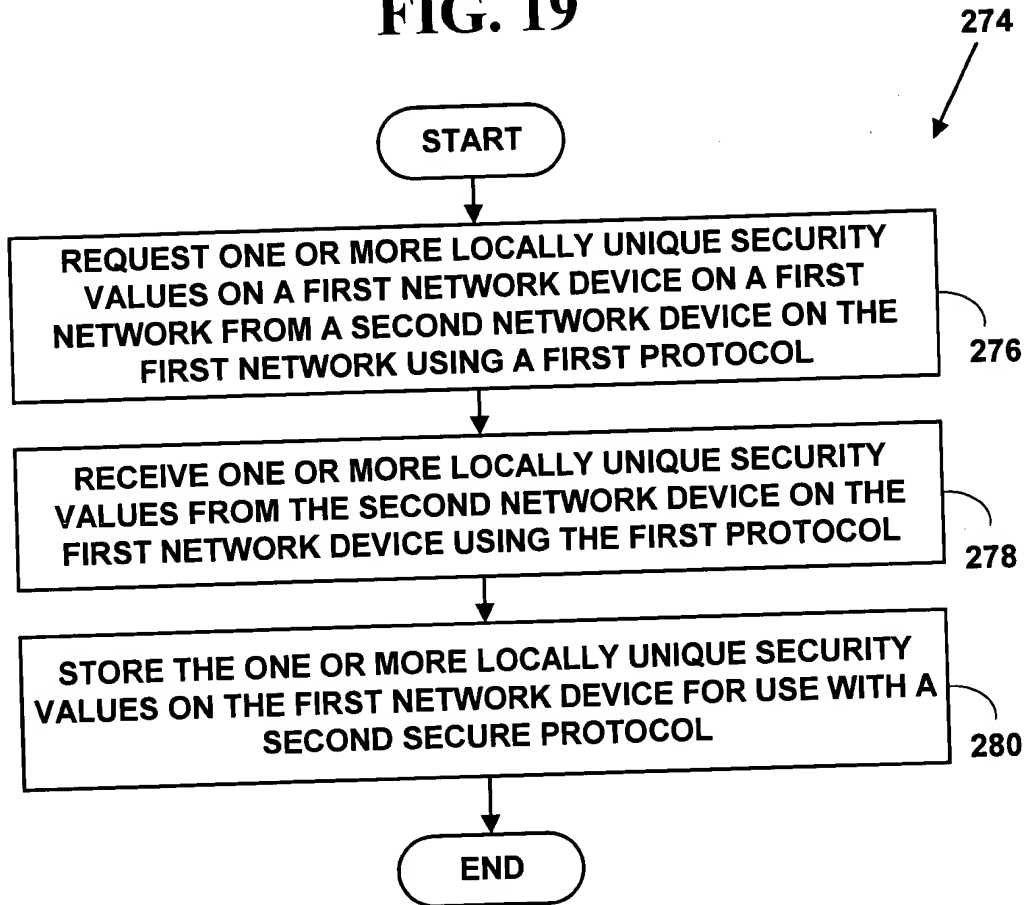
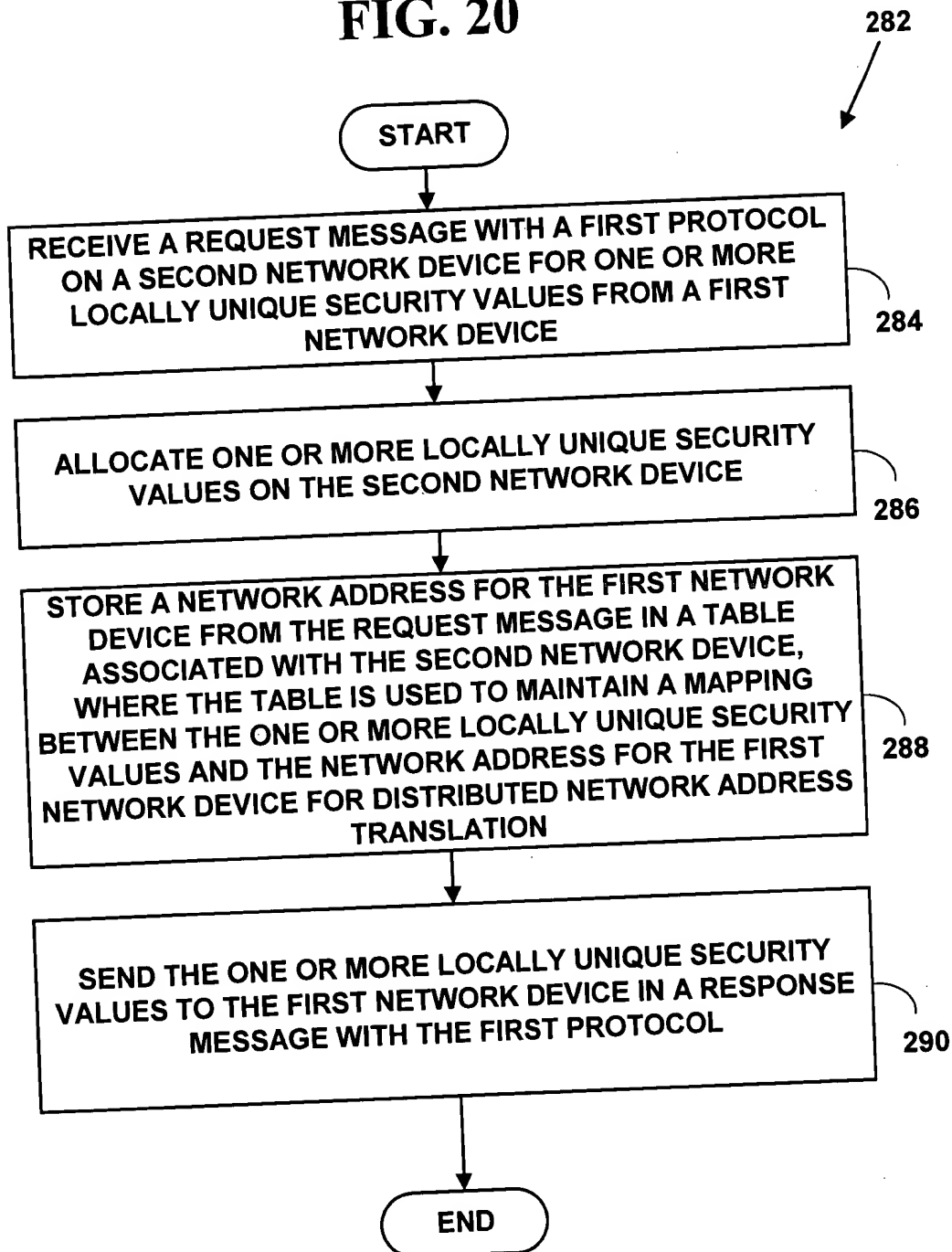


FIG. 20

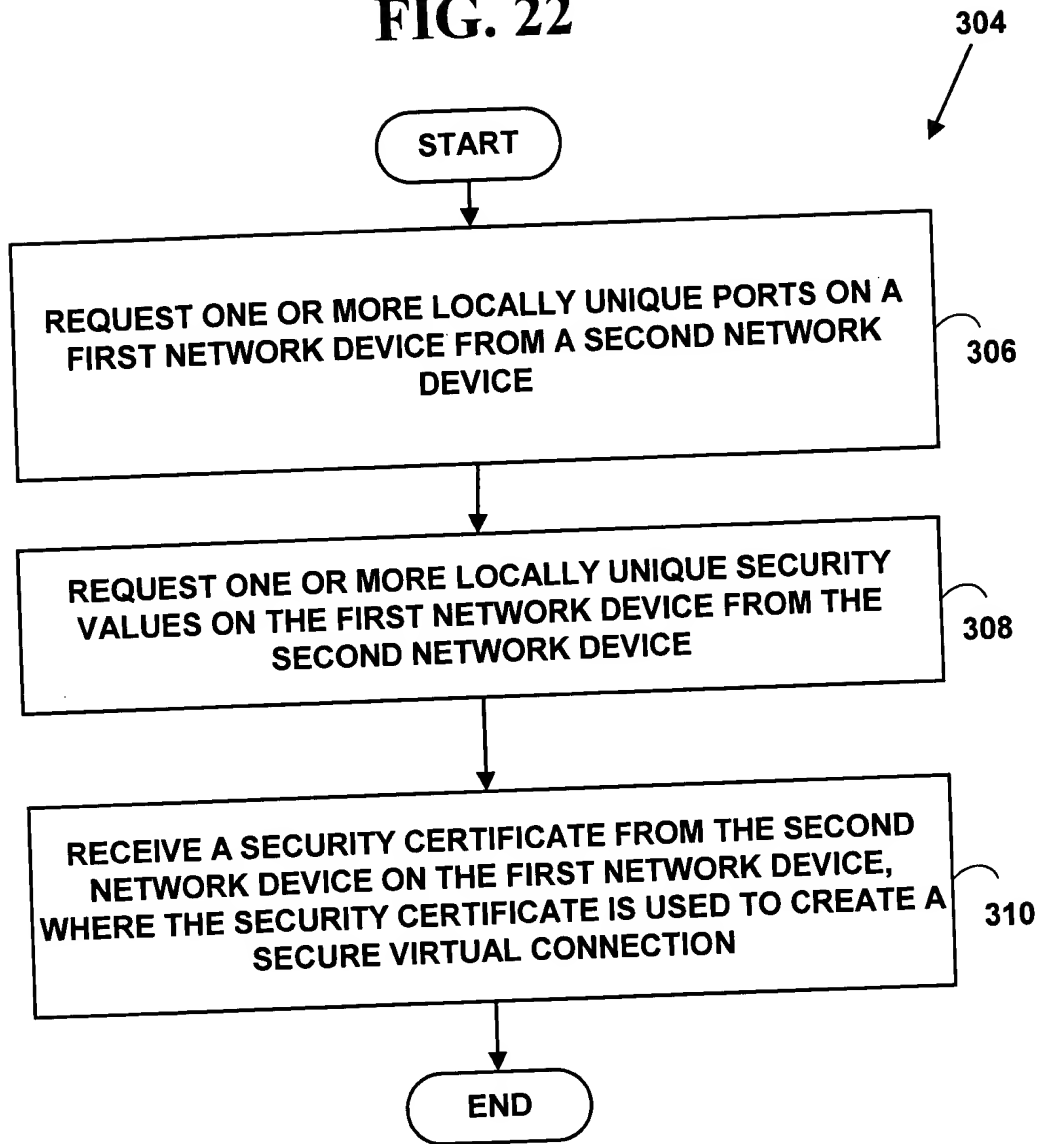


654230 3511360

SECRET

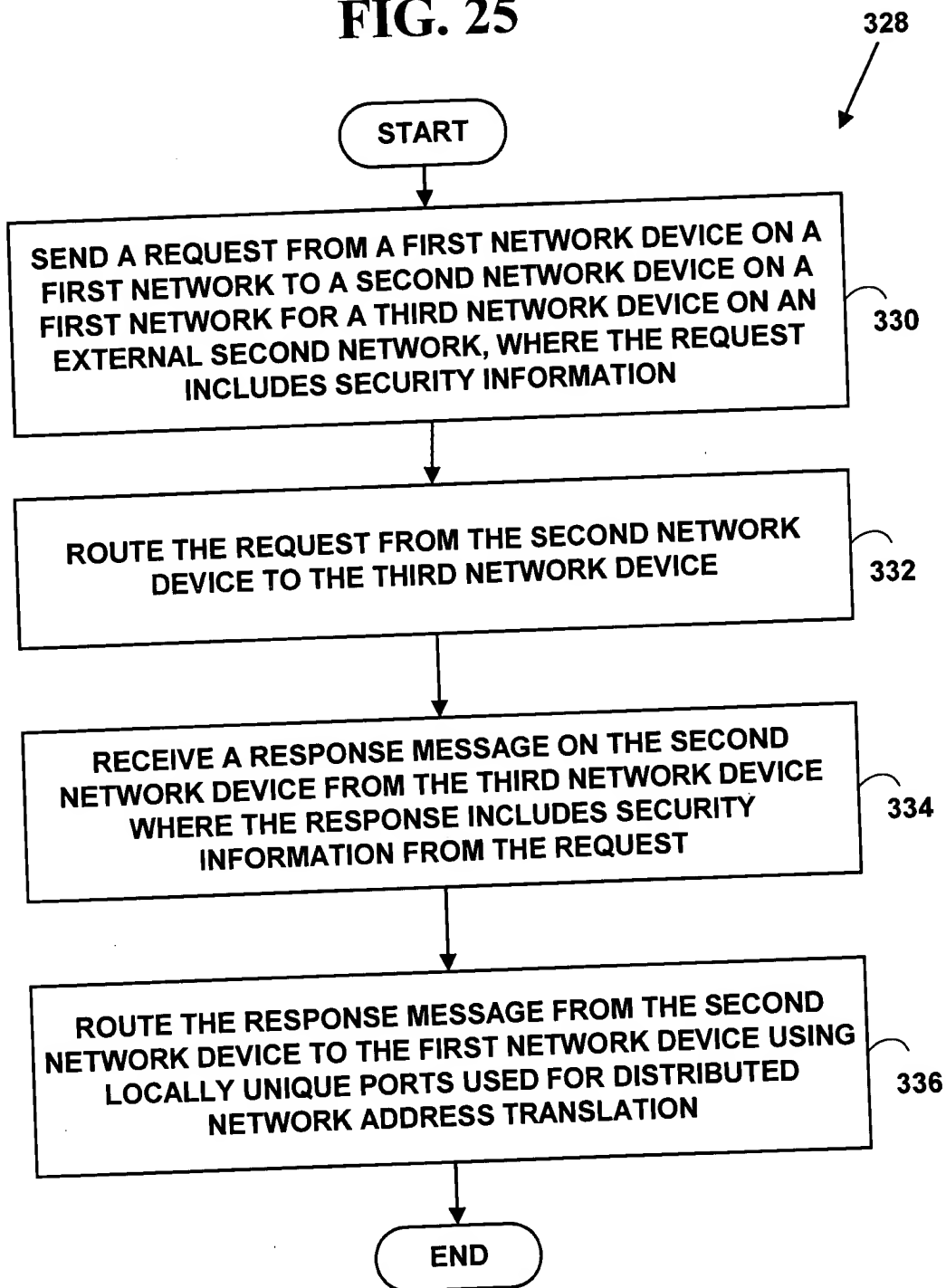
SPI-TO-INTERNAL-NETWORK ADDRESS TABLE

FIG. 22



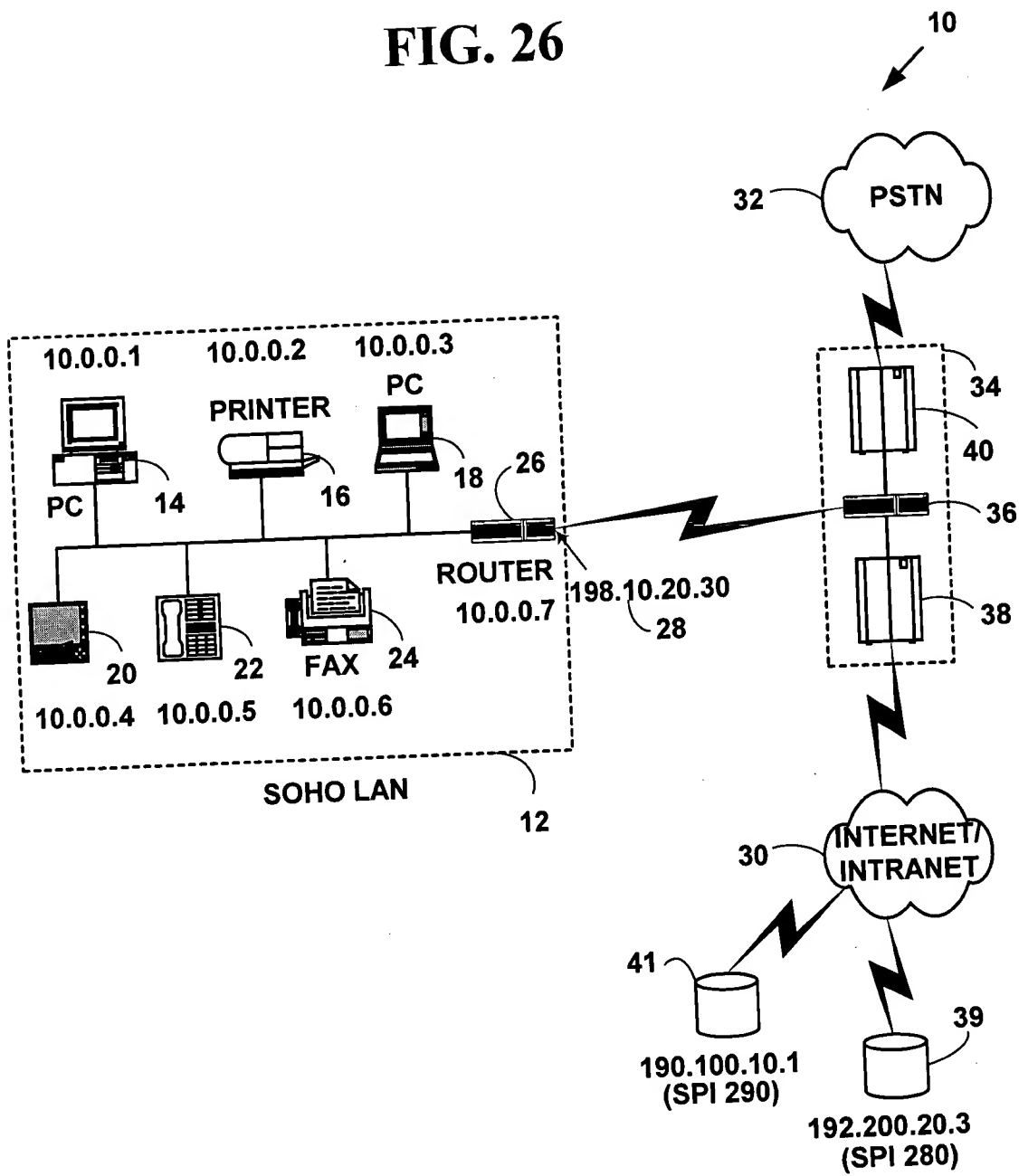
2025 RELEASE UNDER E.O. 14176

FIG. 25



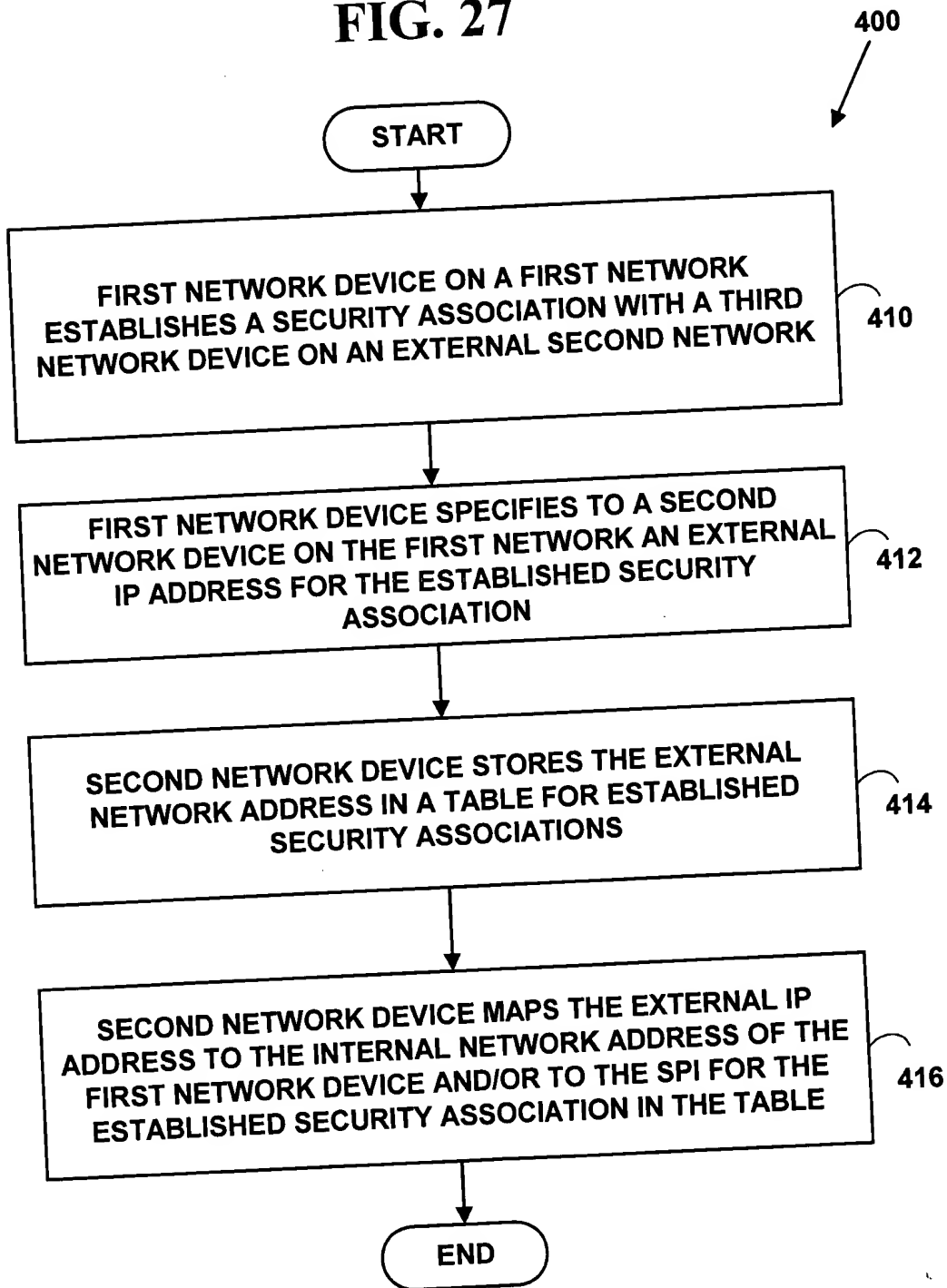
092230-354860

FIG. 26



1002000-3314260

FIG. 27



002280-8948200

FIG. 28A
PAP EXTERNAL ADDRESS VALIDATING
MESSAGE LAYOUT

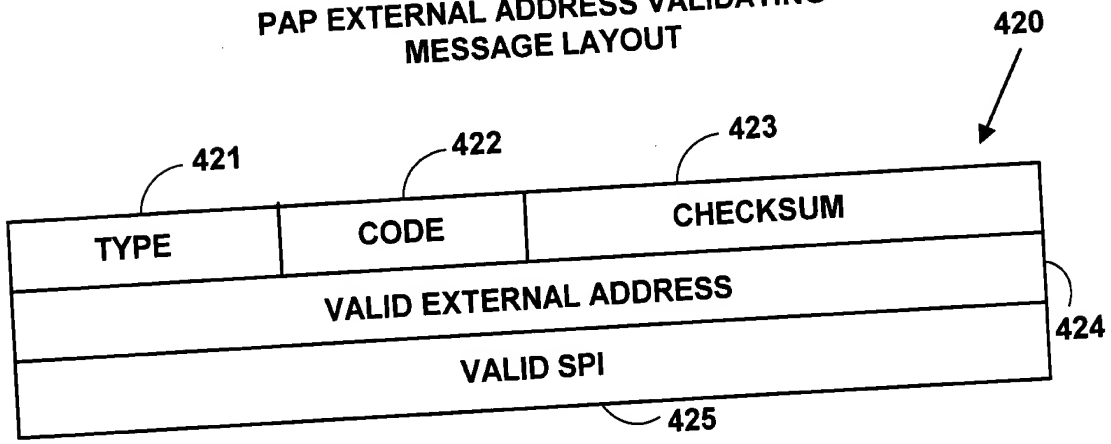


FIG. 28B
PAP EXTERNAL ADDRESS INVALIDATING
MESSAGE LAYOUT

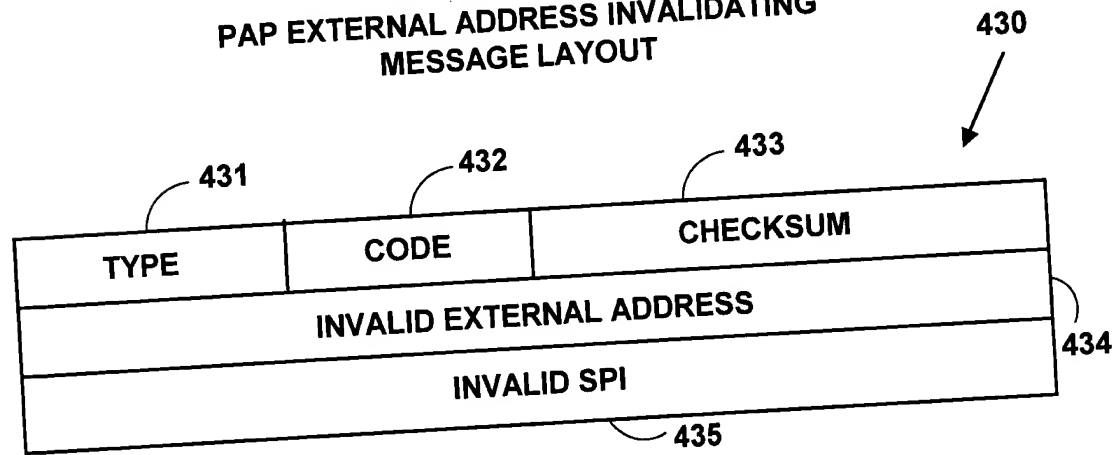


FIG. 29A

EXTERNAL NETWORK ADDRESS FOR SA	INTERNAL NETWORK ADDRESS
192.200.20.3	10.0.0.1

FIG. 29B

EXTERNAL NETWORK ADDRESS FOR SA	SPI FOR SA
192.200.20.3	280

FIG. 29C

EXTERNAL NETWORK ADDRESS FOR SA	SPI FOR SA	INTERNAL NETWORK ADDRESS
192.200.20.3	280	10.0.0.1

FIG. 30

